Promoting Alternative Thinking Strategies (PATHS)

Program description:

The PATHS Curriculum is a classroom socioemotional learning (SEL) program designed to improve self-control, emotional understanding, interpersonal relationships, and social problem-solving skills. Through development of these skills, PATHS aims to prevent serious emotional and behavioral problems.

Typical age of primary program participant: 6

Typical age of secondary program participant: N/A

Meta-Analysis of Program Effects

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Primary or Second-	No. of Effect Sizes	•			Adjusted Effect Sizes and Standard Errors Used in the Benefit-Cost Analysis					
ary Partici-							is	Se	cond time estimated	
pant		ES	SE	p-value	ES	SE	Age	ES	SE	Age
Р	4	-0.05	0.14	0.74	0.00	0.14	7	0.00	0.06	12
Р	3	-0.06	0.12	0.62	0.00	0.12	7	0.00	0.05	12
	or Second- ary Partici- pant	Primary No. of Effect Secondary Participant	Primary No. of Unadjus (Randor Secondary Participant ES	Primary No. of or Effect (Random Effects Sizes ary Participant ES SE	Primary or Effect Sizes (Random Effects Model) Secondary Participant ES SE p-value P 4 -0.05 0.14 0.74	or Secondary Participant Effect Sizes (Random Effects Model) ES SE p-value ES P 4 -0.05 0.14 0.74 0.00	Primary or Effect Sizes (Random Effects Sizes (Random Effects Model) Secondary Participant ES SE p-value ES SE P 4 -0.05 0.14 0.74 0.00 0.14	Primary or Secondary Participant P 4 -0.05 0.14 0.74 0.00 0.14 7	Primary or Secondary Participant	Primary or Secondary Participant P 4 -0.05 0.14 0.74 0.00 0.14 7 0.00 0.06

Benefit-Cost Summary

	Program Benefits				Costs	Summary Statistics				
The estimates shown are present value, life cycle benefits and costs. All dollars are expressed in the base year chosen for this analysis (2011). The economic discount rates and other relevant parameters are described in Technical Appendix 2.	Participants	Tax- payers -\$6	Other -\$6	Other Indirect	Total Benefits -\$19	-\$115	Benefit to Cost Ratio	Return on Invest- ment n/e	Benefits Minus Costs -\$134	Probability of a positive net present value 23%

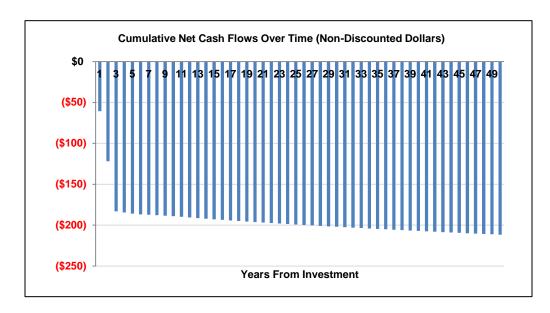
Detailed Monetary Benefit Estimates

Detailed Methotal y Deficit Estimates								
Benefits to:								
Source of Benefits	Partici- pants	Tax- payers	Other	Other In- direct	Total Benefits			
Crime	\$0	\$0	-\$1	\$0	-\$1			
Earnings via high school graduation	-\$2	-\$1	\$0	\$0	-\$3			
Health care costs for disruptive behavior symptoms	-\$2	-\$5	-\$5	-\$3	-\$15			

Detailed Cost Estimates

The figures shown are estimates of the costs	Program Costs		Comparison Costs			Summary Statistics		
to implement programs in Washington. The comparison group costs reflect either no treatment or treatment as usual, depending on how effect sizes were calculated in the	Annual Cost	Program Duration	Year Dollars	Annual Cost	Program Duration	Year Dollars	Present Value of Net Program Costs (in 2011 dollars)	Uncertainty (+ or - %)
meta-analysis. The uncertainty range is used in Monte Carlo risk analysis, described in Technical Appendix 2.	\$30	3	1998	\$0	3	1998	\$115	10%

Source: Based on midpoint of annual per-student costs from Blueprints for Violence Prevention: http://www.colorado.edu/cspv/blueprints/modelprograms/PATHS.html.



Multiplicative Adjustments Applied to the Meta-Analysis

Type of Adjustment	Multiplier
1- Less well-implemented comparison group or observational study, with some covariates.	0.5
2- Well-implemented comparison group design, often with many statistical controls.	0.5
3- Well-done observational study with many statistical controls (e.g., IV, regression discontinuity).	0.75
4- Random assignment, with some RA implementation issues.	0.75
5- Well-done random assignment study.	1.00
Program developer = researcher	0.5
Unusual (not "real world") setting	0.5
Weak measurement used	0.5

Studies Used in the Meta-Analysis

Conduct Problems Prevention Research Group. (1999). Initial impact of the Fast Track prevention trial for conduct problems: II. Classroom effects. *Journal of Consulting and Clinical Psychology*, 67(5), 648-657.

Domitrovich, C., Cortes, R., & Greenberg, M. (2007). Improving young children's social and emotional competence: A randomized trial of the preschool "PATHS" curriculum. *Journal of Primary Prevention*, 28(2), 67-91.

Greenberg, M. T., & Kusché, C. A. (1998). Preventive intervention for school-age deaf children: The PATHS curriculum. *Journal of Deaf Studies and Deaf Education, 3*(1), 49-63.

Riggs, N., Greenberg, M., Kusché C. A., C., & Pentz, M. (2006). The mediational role of neurocognition in the behavioral outcomes of a social-emotional prevention program in elementary school students: Effects of the PATHS curriculum. *Prevention Science*, 7(1), 91-102.